

What is claimed is:

[Claim 1] 1. An apparatus for image processing, comprising:

an input First-In-First-Out buffer for receiving a compressed file;
a decoding core for decoding the compressed file and outputting a decoded file as a plurality of code units;
a cutting unit for selecting a portion of the code units corresponding to a specified range of display;
a resizing unit for performing a rotation or a resizing operation on the portion of code units;
a frame buffer for receiving a processed image data from the resizing unit; and
a digital video encoder for converting the processed image data into a digital video signal.

[Claim 2] 2. The apparatus of claim 1 further comprising an output First-In-First-Out buffer for outputting the processed image data back to a central processing unit (CPU) by the command of the CPU.

[Claim 3] 3. The apparatus of claim 1 wherein the code unit is a minimum code unit (MCU).

[Claim 4] 4. The apparatus of claim 1 wherein an information about the range of display is output from the CPU.

[Claim 5] 5. The apparatus of claim 1 wherein the compressed file is a JPEG file.

[Claim 6] 6. The apparatus of claim 1 wherein a sample factor is stored in the compressed file.

[Claim 7] 7. The apparatus of claim 6 wherein the sample factor comprising a format and a plurality of parameters associated with the compressed file.

[Claim 8] 8. A method for image processing, the method comprising:
receiving a plurality of code units; and
receiving range of display information and choosing a portion of the plurality of code units according to the range of display information.

[Claim 9] 9. The method of claim 8 wherein the code units are a plurality of minimum code units.

[Claim 10] 10. The method of claim 8 wherein the information about the range of display is output from a central processing unit (CPU).

[Claim 11] 11. The method of claim 10 wherein the CPU determines the range of display according to a user setting.

[Claim 12] 12. The method of claim 8 further comprising performing a resizing operation on the portion of the plurality of code units.

[Claim 13] 13. The method of claim 8 further comprising performing a rotation operation on the portion of the plurality of code units.